

Claims

- [c1] A vacuum cleaner comprising;
a housing defining an agitation cavity and a suction nozzle ;
a suction source in fluid communication with the suction nozzle;
an agitation brush mounted in the agitation cavity for rotation about a brush axis ;
an agitation brush drive connected to the agitation brush for rotating the agitation brush about the brush axis;
the improvement comprising,
at least one cutting blade positioned adjacent a portion of the agitation brush drive to prevent buildup of elongate particles on the portion of the agitation brush drive.
- [c2] A vacuum cleaner according to claim 1 wherein the agitation brush drive comprises an electric motor with an output shaft connected to the agitation brush and the cutting blade is mounted adjacent to the motor output shaft.
- [c3] A vacuum cleaner according to claim 2 wherein the motor output shaft includes a spindle and the cutting blade is mounted adjacent to the spindle.
- [c4] A vacuum cleaner according to claim 3 wherein agitation brush drive further comprises a belt between the spindle and the agitation brush.
- [c5] A vacuum cleaner according to claim 2 wherein agitation brush drive further comprises a belt between the motor drive shaft and the agitation brush.
- [c6] A vacuum cleaner according to claim 5 and further comprising at least one additional cutting blade mounted to the housing adjacent the agitator brush.
- [c7] A vacuum cleaner according to claim 5 and further comprising a cutting blade mounted to the housing adjacent to each end of the agitator brush.
- [c8] A vacuum cleaner according to claim 1 wherein the vacuum cleaner is an vacuum cleaner.
- [c9] A vacuum cleaner according to claim 1 wherein the vacuum cleaner is a canister

vacuum cleaner.

- [c10] A vacuum cleaner according to claim 1 wherein the vacuum cleaner is a portable hand-held vacuum cleaner.
- [c11] A vacuum cleaner according to claim 1 wherein the vacuum cleaner is a deep cleaner.
- [c12] A vacuum cleaner comprising;
a housing defining an agitation cavity and a suction nozzle ;
a suction source in fluid communication with the suction nozzle;
an agitation brush mounted in the agitation cavity for rotation about a brush axis ;
an agitation brush drive connected to the agitation brush for rotating the agitation brush about the brush axis;
the improvement comprising,
at least one cutting blade mounted to the housing adjacent a portion of the agitator brush to prevent buildup of elongated particles on the portion of the agitation brush.
- [c13] A vacuum cleaner according to claim 12 wherein the portion of the agitator brush is adjacent an end of the agitator brush.
- [c14] A vacuum cleaner according to claim 13 and further comprising a cutting blade mounted to the housing adjacent to each end of the agitator brush.
- [c15] A vacuum cleaner according to claim 12 wherein the vacuum cleaner is an upright vacuum cleaner.
- [c16] A vacuum cleaner according to claim 12 wherein the vacuum cleaner is a canister vacuum cleaner.
- [c17] A vacuum cleaner according to claim 12 wherein the vacuum cleaner is a portable hand-held vacuum cleaner.
- [c18] A vacuum cleaner according to claim 12 wherein the vacuum cleaner is a deep cleaner.